

## University of Groningen

### Event by event method for quantum interference simulation

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# STELLINGEN

Behorende bij het proefschrift

## **Event by Event Method for Quantum Interference Simulation**

**Mutia Delina**

1. Using it in good way physics is a friend, but in a bad way it becomes an enemy
2. Don't just rely yourself on luck. Without dreams and hard work you will not change your life.
3. PhD defense is not the end of your battle, as you have the responsibility to apply your discipline into practical use of everyday life.
4. Visualization is one of the important parts to help attaining a deeper understanding of an experiment.
5. A favorable result in experimental physics is not just a collection of a set of data and a test of a theory but should be a meaningful contribution for a better world.
6. Even though the event by event method does not rely on any concept of quantum mechanics, it is able to simulate various kinds of quantum interference experiments.
7. The total intensity of multi-order interference is not the sum of individual interference terms, except in special cases such as in an extension of the Mach-Zehnder interferometer.
8. The amplitude of interference pattern depends on the attenuation model used in the Mach-Zehnder interferometer experiment and simulation.